

INTERNATIONAL SEARCH REPORT

International application No.

PCT/CN2004/001012

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ F23Q2/16,2/34

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷ F23Q, F23D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

CHINA PATENT DOCUMENT (1985—)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI,PAJ,EPODOC,CNPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| A | US 4717335 A (LOVELESS G M) 5.Jan.1988 (05.01.1988) whole document | 1-9 |
| A | CN 2454656 Y (Ouhai Fengyuan Smoking Set LTD, Wenzhou) 17.Oct.2001 (17.10.2001) whole document | 1-9 |
| A | US 5597299 A (JON J K) 28.Jan.1997 (28.01.1997) whole document | 1-9 |
| A | US 20020160328 A1 (TREND & AIM INT LTD) 31.Oct.2002 (31.10.2002) whole document | 1-9 |
| A | WO 0194848 A1 (SWEDISH MATCH LIGHTERS BV) 13.Dec.2001 (13.12.2001) whole document | 1-9 |

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- “A” document defining the general state of the art which is not considered to be of particular relevance
- “E” earlier application or patent but published on or after the international filing date
- “L” document which may throw doubts on priority claim (S) or which is cited to establish the publication date of another citation or other special reason (as specified)
- “O” document referring to an oral disclosure, use, exhibition or other means
- “P” document published prior to the international filing date but later than the priority date claimed

“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

“&” document member of the same patent family

| | |
|---|--|
| Date of the actual completion of the international search 25/11/2004 | Date of mailing of the international search report 27 : JAN 2005 (27.01.2005) |
| Name and mailing address of the ISA/ 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451 | Authorized officer HUO, Fang Telephone No. 86-10-62084496  |

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/CN2004/001012

| | | | | |
|-------------------|------------|----------------|------------|--|
| US 4717335 A | 05-01-1988 | NONE | | |
| CN 2454656 Y | 17-10-2001 | NONE | | |
| US 5597299 A | 28-01-1997 | NONE | | |
| US 20020160328 A1 | 31-10-2002 | WO 03001117 A2 | 03-01-2003 | |
| WO 0194848 A1 | 13-12-2001 | GB 2363190 A | 12-12-2001 | |
| | | AU 6055301 A | 17-12-2001 | |

国际检索报告

国际申请号

PCT/CN2004/001012

A. 主题的分类

IPC⁷ F23Q2/16,2/34

按照国际专利分类表(IPC)或者同时按照国家分类和IPC两种分类

B. 检索领域

检索的最低限度文献(标明分类系统和分类号)

IPC⁷ F23Q,F23D

包含在检索领域中的除最低限度文献以外的检索文献

中国专利文献(1985—)

在国际检索时查阅的电子数据库(数据库的名称, 和使用的检索词(如使用))

CNPAT,WPI,EPODOC,PAJ

C. 相关文件

| 类型* | 引用文件, 必要时, 指明相关段落 | 相关的权利要求 |
|-----|---|---------|
| A | US 4717335 A (LOVELESS G M) 1988年1月5日 (05.01.1988) 全文 | 1-9 |
| A | CN 2454656 Y (温州市瓯海逢源烟具有限公司) 2001年10月17日 (17.10.2001) 全文 | 1-9 |
| A | US 5597299 A (JON J K) 1997年1月28日 (28.01.1997) 全文 | 1-9 |
| A | US 20020160328 A1 (TREND & AIM INT LTD) 2002年10月31日 (31.10.2002) 全文 | 1-9 |
| A | WO 0194848 A1 (SWEDISH MATCH LIGHTERS BV) 2001年12月13日 (13.12.2001) 全文 | 1-9 |

 其余文件在C栏的续页中列出。 见同族专利附件。

* 引用文件的具体类型:

“A”认为不特别相关的表示了现有技术一般状态的文件

“E”在国际申请日的当天或之后公布的在先申请或专利

“L”可能对优先权要求构成怀疑的文件, 为确定另一篇引用文件的公布日而引用的或者因其他特殊理由而引用的文件

“O”涉及口头公开、使用、展览或其他方式公开的文件

“P”公布日先于国际申请日但迟于所要求的优先权日的文件

“T”在申请日或优先权日之后公布, 与申请不相抵触, 但为了理解发明之理论或原理的在后文件

“X”特别相关的文件, 单独考虑该文件, 认定要求保护的发明不是新颖的或不具有创造性

“Y”特别相关的文件, 当该文件与另一篇或者多篇该类文件结合并且这种结合对于本领域技术人员为显而易见时, 要求保护的发明不具有创造性

“&”同族专利的文件

国际检索实际完成的日期

25/11/2004

国际检索报告邮寄日期

27·1月2005 (27·01·2005)

中华人民共和国国家知识产权局(ISA/CN)
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国际检索报告
关于同族专利的信息

国际申请号
PCT/CN2004/001012

| 检索报告中引用的专利文件 | 公布日期 | 同族专利 | 公布日期 |
|-------------------|------------|----------------|------------|
| US 4717335 A | 05-01-1988 | 无 | |
| CN 2454656 Y | 17-10-2001 | 无 | |
| US 5597299 A | 28-01-1997 | 无 | |
| US 20020160328 A1 | 31-10-2002 | WO 03001117 A2 | 03-01-2003 |
| WO 0194848 A1 | 13-12-2001 | GB2363190 A | 12-12-2001 |
| | | AU 6055301 A | 17-12-2001 |